



# Madison County EMS



## Fentanyl Guideline

Fentanyl Citrate, also known as Sublimaze, is a synthetic opioid agonist 80-100 times more potent than morphine. It has numerous applications in the EMS setting for pain control and post-intubation sedation. Most important are the rapid onset of action and mild to moderate duration of action. In comparison to morphine which has a relatively high histamine release after injection, fentanyl has very little release of histamine, making this drug appropriate for inducing analgesia in the mild/moderate hypotensive patient. Due to the controversial nature of this drug's relative abuse potential, every provider must be vigilant during accountability procedures. It will be kept in the drug bags and exchanged through the pyxis machine at CRH by a nurse on a one for one basis.

### Actions: narcotic analgesia

1. Onset of action 30 seconds for IV and 7 minutes for IM administration
2. Duration of action is 30-60 minutes

### Indications:

1. Pain Management
2. Post-intubation Sedation

### Contraindications:

1. Sensitivity to fentanyl
2. Uncorrected shock

### Precautions:

1. Significant hypotension secondary to shock
2. Respiratory depression
3. Give slowly, rapid infusion could cause muscle rigidity
4. Use of MAO inhibitors
5. Pregnancy category C
6. Undiagnosed abdominal pain

### Administration:

1. Slow IV/IO/IM
2. Supply: (1) 250 mcg in 5 ml (50 mcg/ml)
3. **Adult dose for pain with SBP >90: 50-100 mcg initially, 25-50 mcg q15 minutes thereafter**, titrating to pain, **not to exceed 250 mcg total**. **Medical Command** can be contacted for additional orders above 250 mcg.
4. **Adult post-intubation sedation dose in RSI with SBP >90: 2 mcg/kg initially, 0.5-1.0 mcg/kg q15 minutes thereafter, titrating to airway status and level of sedation.**
5. **Peds dose for pain: 2 mcg/kg**. **Medical Command** can be contacted for a repeat dose.
6. Note: Continuous ECG, pulse oximetry, and blood pressure monitoring (every 5 minutes) are mandatory during, and after fentanyl administration. If there is any acute drop in blood pressure, pulse, respiratory rate, or mental status, administration of fentanyl must stop immediately regardless of pain level. **Medical command** must be contacted before any further doses.

### Side Effects:

1. Miosis, nausea, vomiting, respiratory depression, and euphoria
2. Give narcan if reaction becomes severe